AMSAT News Service Weekly Bulletins
Issue: ANS-247
Date: 2022-09-04
Sources: amsat-ans-2022-ans-247-weekly-hyperkitty-2ef3b62cbc.txt

---

AMSAT NEWS SERVICE
ANS-247

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org.

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

In this edition:

* 40th AMSAT Space Symposium and Annual General Meeting, October 21-22
* AMSAT-EA Collaborates With the ROM-2 Mission
* VUCC Satellite Standings September 2022
* Tracking Tools for Artemis I
* New Guide for Tracking and Decoding NOAA Weather Satellites
* ARISS News
* Upcoming Satellite Operations
* Hamfests, Conventions, Maker Faires, and Other Events
* Satellite Shorts From All Over

ANS-247 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2022 Sep 04

40th AMSAT Space Symposium and Annual General Meeting, October 21-22

The 40th AMSAT Space Symposium and Annual General Meeting will take place in Bloomington, Minnesota on Oct. 21-22, 2022. Highlights of all scheduled events include:

- AMSAT Board of Directors Meeting, October 20-21
- 40th AMSAT Space Symposium and Annual General Meeting, October 21-22
- Friday Night Social and Auction, October 21
- AMSAT Banquet and Reception, October 22
- AMSAT Ambassador Breakfast, October 23

A preliminary schedule is available on the AMSAT Member Portal, launch.amsat.org, under the Events tab.

Crowne Plaza is located adjacent to the Minneapolis/St. Paul International Airport and provides complimentary, scheduled shuttle to and from the airport. Nearby attractions include Mall of America with Nickelodeon Universe Theme park, Target Field, and the Minnesota Zoo.

You can make hotel reservations by calling the hotel directly at (952) 854-9000. The group code is ASG (Amateur Satellite Group). Hotel reservations can also be made online at the following link:

https://tinyurl.com/ANS-219-Symposium-Rooms.

Symposium tickets and banquet reservations may be purchased on the AMSAT Member Portal. Log into https://launch.amsat.org/ and clock on the Events tab.

We at AMSAT, are excited to be able to host an in-person Symposium this year. We hope that you can join us in celebrating Amateur Radio in Space.

[ANS thanks AMSAT for the above information.]

+=+=+=

N5EKO	234	281
A65BR	226	260
JH0BBE	200	206
JK2XXK	156	200
DL8GAM	152	186
VE2NGO	150	175
PA7RA	New	156
GI4SJQ	New	110
N8URE (EN61)	New	102
K8WU	New	100
KO9A	New	100
W6AER	New	100

Congratulations to the new VUCC holders!

PA7RA is first Satellite VUCC holder from Netherlands and 1st from JO21

[ANS thanks Jon Goering, N7AZ, for the above information.]

+=+=+=

provided by the Solar System Dynamics Group of the Jet Propulsion Laboratory.

Joe says to use "OMOTENASHI" as the Target Body. You will find the online app at https://ssd.jpl.nasa.gov/horizons

[ANS thanks Brian Wilkins, KO4AQF, Joe Fitzgerald, KM1P, NASA and JPL for the above information.]

New Guide for Tracking and Decoding NOAA Weather Satellites

Samual Yanz, N7FNV,has created a detailed 39 page guide about tracking and decoding NOAA low earth polar orbit weather satellites. These satellites are a great way to interest young people in satellite communications. They transmit a powerful signal so that they are easily received an inexpensive radio, a simple antenna and free software. Currently there are three operational polar orbiting NOAA weather satellites that transmit image data in the APT format at 137 MHz. When one of these satellites pass overhead, it is possible to use an RTL-SDR with appropriate antenna and software to automatically receive the satellite weather images they transmit.

The purpose of this guide is to completely install software and configure them to automatically receive incoming NOAA signals and process them into images. While there are many variations of hardware that can be used for this application, Yanz focuses on a simple setup to get anyone on the air. Samual's guide focuses on the software and shows how to setup Virtual Audio Cable for piping audio between programs, SDR# for receiving the signal, Orbitron for tracking the satellite and WXtoIMG for decoding the image.

Download the PDF guide at https://tinyurl.com/ANS-247-NOAA-Satellites-Guide.

[ANS thanks RTL-SDR.com for the above information.]

+=+=+=

EM85; September 12-16, 2022
N8AJM will be working FM only with no set schedule. He may also activate a few grids on the way down from EN72. He will try to post all passes on hams.at

CN74; September 22-24, 2022
KJ7DZ has a roving trip booked. More info will be posted as time gets closer

[ANS thanks Paul Overn, KE0PBR, AMSAT rover page manager, for the above information.]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

+ 41st ARRL and TAPR Digital Communications Conference (DCC)
September 16–18, 2022
Hilton Charlotte Airport Hotel
Charlotte, North Carolina
https://tapr.org

+ Chicago FM Club Radio Expo
September 25, 2022
Boone County Fairgrounds
8791 IL-76, Belvidere, IL 61008
Tom Zimmerman, W9TTY, will host an AMSAT exhibit.

+ 2022 Rocky Mountain ARRL Division Convention
October 7-9, 2022
Event Center at Archer
3921 Archer Pkwy
Cheyenne, Wyoming 82007
https://wyhamcon.org/site

+ 2022 AMSAT-UK International Space Colloquium
October 8–9, 2022
Kents Hill Park Conference Centre
Milton Keynes
https://rsgb.org/main/about-us/rsgb-convention/

+ 40th Annual AMSAT Space Symposium and General Meeting
October 21–22, 2022
The Crowne Plaza Suites
3 Appletree Square, Bloomington, MN
More information to follow.

[ANS thanks Paul Overn, KE0PBR, AMSAT Events page manager, for the above information.]

Satellite Shorts From All Over

+ The NEXUS (FO-99) operation schedule for September, 2022 is available at https://www.jamsat.or.jp/?p=1974. Y.Ohtani, JH4DHX/3, of the NEXUS operations team reports that the operation of DigiTalker will be closed. Please enjoy NEXUS / FO-99 ! FO-29 remains in full sunlight and should continue to be available for use this month. [AMSAT thanks JAMSAT for the above information.]

+ Space is hard, even for the pros: Intelsat said the Galaxy 15 broadcast satellite that stopped responding to commands earlier this month shut down its payload Aug. 31, reducing the risk of interfering with signals from other spacecraft. However, Galaxy 15 continues to drift out of its geostationary orbit slot at 133 degrees West, and "will soon begin transiting through orbital locations licensed for other satellites," an Intelsat spokesperson said. "With the payload muted, the focus of

this coordination ensures 'fly-by' procedures are coordinated so that the spacecraft avoid a physical collision. This is a normal part of spacecraft operations that is regularly executed and poses minimal risk." Intelsat said it has successfully moved all customers from Galaxy 15 to its Galaxy 23 satellite. SpaceX is slated to launch Galaxy 33, Galaxy 15's replacement, "on or about Oct. 8, 2022," the spokesperson added. [ANS thanks SpaceNews for the above information.]

+ But sometimes, things just work: Engineers with NASA have repaired an issue with the space agency's Voyager 1 spacecraft, but have yet to identify the cause of the problem, officials confirmed on August 27. The probe had been sending garbled data about its status, including information about its health and activities to mission controllers, despite otherwise operating normally. Launched in 1977, NASA's Voyager 1 and Voyager 2 probes are both still active, exploring deep space. Both are still communicating with NASA, despite being launched 45 years ago. The spacecraft are two of only five space probes from Earth that have left the solar system. Voyager 1 is currently 14.5 billion miles from Earth. [ANS thanks SpaceDaily for the above information.]

+ NASA and Axiom Space said Wednesday, August 28 that they plan to launch a second private astronaut mission to the International Space Station in 2023. The spaceflight, coordinated by the U.S. space agency and the private Houston-based infrastructure developer, will be designated as Axiom Mission 2, or Ax-2 and will launch from NASA's Kennedy Space Center in Florida in the second quarter of 2023. Private Axiom astronauts will travel to the ISS and spend 10 days aboard the space station and participate in in-orbit activities in coordination with ISS crew and flight controllers on the ground. The first Axiom mission, in April 2022, featured extensive amateur radio activity. No word yet about hams aboard Ax-2. [ANS thanks SpaceDaily for the above information.]

+ The AMSAT-DL (Germany) Symposium will be held prior to the General Membership Meeting on Saturday, September 10, 2022 from 10 am to 1 pm. The general meeting will follow at 2 p.m., after a short lunch break during which refreshments will be provided. The events will take place at the Radome of the Bochum Observatory, Association headquarters of AMSAT Germany, Obernbaakstraße 6, 44797 Bochum, Germany. [ANS thanks AMSAT-DL for the above information.]

+ The AMSAT-SA (South Africa) Space Symposium 2022 will be held virtually on 10 September 2022 from 09:00 to 16:30 SAST (07:00 - 14:30 UTC). The theme will be, "Space, the next frontier for expansion of amateur radio." The event will be virtual on the BlueJeans platform. The programme includes a session for beginners and the people returning to satellite operation. Other papers include "OSCAR100 - the easy way", "A 70cm - 10GHz transponder", "Satellite Server: Browser Based Satellite Tracking Software", "The new AMSAT-NA Fox plus program", a review of AfriCUBE with a demonstration of the prototype flying on BACAR in early October plus many other interesting topics. Full programme at https://bit.ly/3efNdJJ The event is free but a donation of R40 (about $2.50 U.S.) towards the AfriCUBE fund would be appreciated. [ANS thanks AMSAT-SA for the above information.]

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Frank Karnauskas, N1UW
n1uw at amsat dot org